

## 1.Feature of LiFePO4 Battery

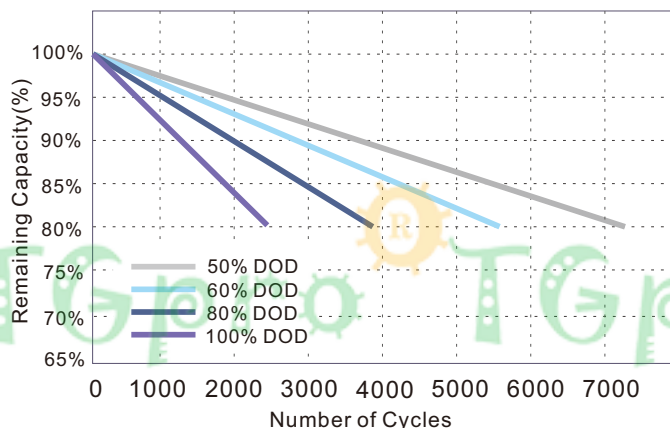
- **Longer Cycle Life:** Offers up to 10times longer cycle life and 5 times longer float/calendarlife than lead acid battery. Helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A "drop in" replacement forlead acid battery.
- **Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintain high energy capacity.
- **Wider Temperature Range:** -20°C~60°C
- **Superior Safety:** Lithium iron phosphate chemistry eliminates the risk of explosion or combustion due to high impact, over charging or short circuit situation.
- **No Memory Effect:** Support unstable partialstate of charge (UPSOC) (charge/discharge) utilization.

## 3.Functions Of BMS

- Over charge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection function
- Short circuit detection function
- Balance function

## 5.Cycle Life Curve

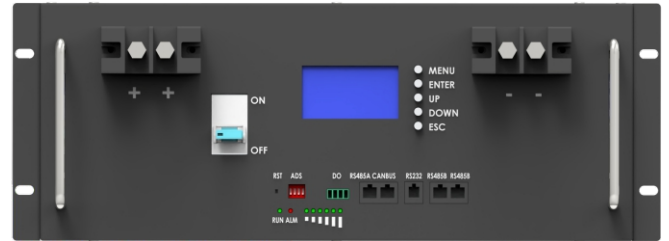
- Different discharge depth life curves &25°C0.5C



## 2.Product Photo

### TGPRO-19Inch Battery Series

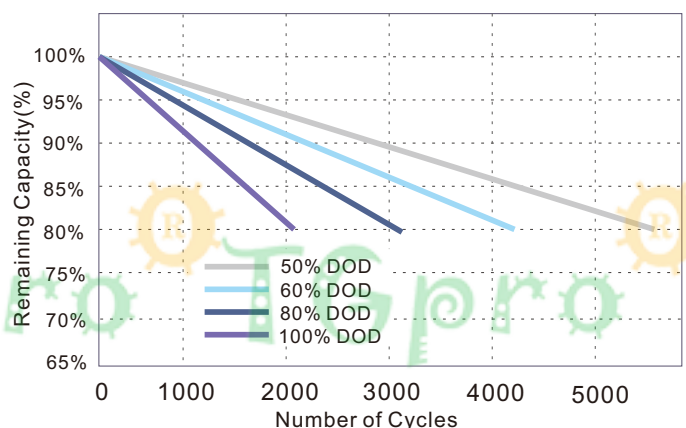
48V100Ah/48V150Ah/48V200Ah



## 4.Application

- Electrical vehicles
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting...

- Different discharge depth life curves &45°C0.5C



## 6.Specification

Model		TGPRO48100	TGPRO48150	TGPRO48200
Electrical Characteristics	Nominal Voltage	48V		
	Nominal Capacity	100Ah	150Ah	200Ah
	Energy	4800Wh	7200Wh	9600Wh
	Internal Resistance	≤60mΩ		
	Cycle Life	≥4000 cycles @ 80% DOD, 25℃, 0.5C ≥3000 cycles @ 80% DOD, 40℃, 0.5C		
	Design Life	≥10 years		
	Months Self Discharge	≤2%SOC@35℃		
	Efficiency of Charge	≥98%		
	Efficiency of Discharge	≥100% @ 0.2C ≥96% @ 1C		
Charge	Charge Cut-off Voltage	54.0V±0.1V		
	Charge Mode	1C to 54.0V, then 54.0V charge current to 0.02C (CC/CV)		
	Charge Current	100A		
	Max. Charge Current	130A		
	Charge Cut-off Voltage	54V±0.2V(Floating charge voltage)		
Discharge	Continuous Current	100A		
	Max. Continuous Discharge Current	130A		
	Discharge Cut-off Voltage	42V±2V		
Environmental	Charge Temperature	-20℃~60℃ (Under 0℃extra heating mechanism)		
	Discharge Temperature	-20℃~60℃ (Under 0℃work with reduced capacity)		
	Storage Temperature	-40℃~55℃ @ 60%±25% relative humidity		
	Water Dust Resistance	Ip21 (The battery cabinet supports Ip55)		
Mechanical	Case	Iron (Insulation painting)		
	Dimensions(mm)	483*460*178	483*620*178	483*680*178
	Weight	53kg	75kg	93kg
	Gravimetric Specific energy	92Wh/kg		
Other	Protocol (optional)	RS232/RS485/CANBUS		
	SOC Light	6 * LED		
	Display Screen	LCD(Optional)		
	Limit charge current	NO		